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UNIPOLAR DRIVE TOPOLOGY FOR PERMANENT MAGNET BRUSHLESS DC

MOTORS AND SWITCHED RELUCTANCE MOTORS

## ABSTRACT OF THE DISCLOSURE

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A unipolar drive includes a booster, an energy storage module, and a unipolar inverter. The booster increase a voltage received from a power supply to produce an energy output. The energy storage module store at least some of the energy output by the booster. The unipolar inverter energizes windings of a motor using energy from the booster and returns energy from the windings to the booster when the windings are not being energized.